

## Claims

1. A sanding machine having a horizontally oriented powered sanding disc and a vertically oriented two sided guide plate in perpendicularity with said disc and having cooperating horizontally located guide pins on both sides of said plate that will allow an operator to sand two picture frame moulding miters ( or the like ) at the same time . The fixed guide pins on both sides of said guide plate are located in alignment with one another to create a 45 degree relationship to the sanding disc .
2. In cooperation with claim 1 an essentially flat vacuum plate with circular exhaust flange for vacuum hose attachment located in cooperation with said base and said sanding disc to create a small air gap between the parallel surfaces of said disc & said plate ; so as to create a high speed air flow across the working area of the said disc for removal of any sanding residue .
3. In cooperation with claim 1 a multi positional guide plate with its self contained guide pins working in cooperation with said vertical guide plate and its said guide pins to create a predetermined angle other than 45 degrees for sanding mouldings that would be assembled to create frames with more or less than four sides . Said multi positional guide plate being symetrical in design can be used on either side of said vertical plate by using opposing sets of locating holes in said multi positional guide plate .
4. In cooperation with claim 1 the removal and replacement of said sanding pad from said sanding disc can be accomplished without the removal of said sanding disc or said vertical guide plate thus maintaining precise prealignment of essential components .

This can be accomplished by peeling up the said sanding pad on the left & right sides relative to the said vertical plate , then lifting both sides of said pad until said pad breaks free from said disc then slide said pad , horizontally & away from the motor , from under said vertical plate .

To replace said pad the operator would remove approximately (2/3) two thirds of the non-stick backing material on said pad & then slide said pad , with remaining backing material first , horizontally toward the motor under said vertical plate while holding the exposed adhesive area slighlty elevated above said disc . Operator would then position said pad over said disc in a centralized manner . While holding downward in the area of said pad in the non-stick zone, adhesive area of the said pad would be released and pressed into place on said disc . Said disc would then be rotated apropriately 180 degrees to expose non-adhered area of said sanding pad . The remaining non-stick backing material would then be removed and said sanding pad adhered to said disc . This operation can be accomplished easier by removing said non-critical vacuum plate .

### **Claims (cont)**

5. In cooperation with claim 1 the assembly of a disc with its bearings and bearing plate & its associated components that form a tiltable unit that can be precision oriented into alignment with vertical guide plate pins at a 45 degree angle and perpendicular to the (2) guide surfaces of the vertical guide plate in an arrangement of jacking screws and clamping screws for mounting and tilting the disc and bearing plate assembly , in cooperation with a cross bar plate attached to the base and vertical guide plate .